ABSTRACT

In a pressure sensor which suppresses outputs by a pyroelectric effect by improving the heat insulating properties thereof through selection of a material for a covering layer with a view to realizing the improvement in reliability and includes a center electrode 45, a composite piezoelectric material layer 49 which covers concentrically the circumference of the center electrode 45, an external electrode 47 which encompasses the outside of the composite piezoelectric material layer 49, a covering layer 51 which covers the outside of the external electrode 47 and an elastic edging material 35 which covers the circumference of the covering layer 51, whereby output signals are generated in the respective electrodes 45, 47 through deformation of the composite piezoelectric material layer 49 by virtue of an external pressure, by covering the elastic edging material 35 by a heat insulating means made from an expandable synthetic resin, a malfunction due to the pyroelectric effect is suppressed. In addition, the heat insulating means may be formed in such a manner as to cover a covering layer 51 made from a normal vinyl chloride and in such a manner as to cover a covering layer 51f made from an expandable synthetic resin having superior heat insulating properties, and alternatively, the heat insulating means may double as the covering layer.